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Datasheet for ABIN6940619  
**anti-SOX9 antibody (AA 393-508)**

6 Images

### Overview

Quantity:	100 µg
Target:	SOX9
Binding Specificity:	AA 393-508
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SOX9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Staining Methods (StM)

### Product Details

Immunogen:	Recombinant human SOX9 protein fragment (around aa 393-508) (exact sequence is proprietary)
Clone:	SOX9-2387
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

### Target Details

Target:	SOX9
Alternative Name:	SOX9 ( <a href="#">SOX9 Products</a> )
Background:	Sox genes comprise a family of genes that are related to the mammalian sex-determining gene

## Target Details

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SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. SOX9 plays an important role in the normal skeletal development. It may regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.

Molecular Weight: 65kDa

Gene ID: 6662

UniProt: [P48436](#)

Pathways: [EGFR Signaling Pathway](#), [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Skeletal Muscle Fiber Development](#)

## Application Details

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Application Notes: Positive Control: HepG2 cells. Pancreas.  
Known Application: Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

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Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

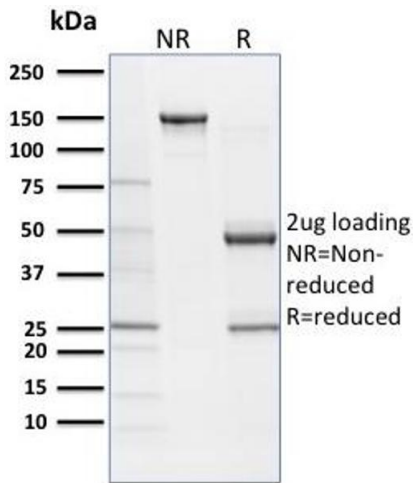
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

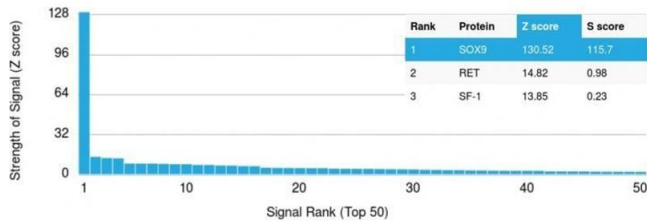
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



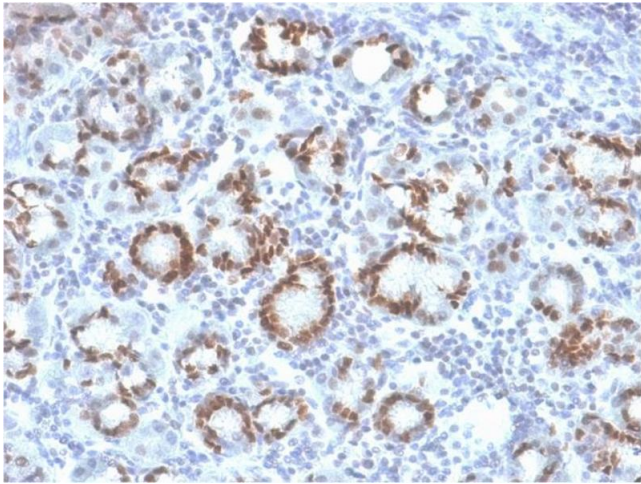
### Western Blotting

**Image 1.** SDS-PAGE Analysis Purified SOX9 Mouse Monoclonal Antibody (SOX9/2387). Confirmation of Integrity and Purity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX9 Mouse Monoclonal Antibody (SOX9/2387) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with SOX9 Mouse Monoclonal Antibody (SOX9/2387).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940619.